

**CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DUTY STATEMENT**

<b>CLASSIFICATION TITLE</b> Transportation Engineering Technician	<b>DISTRICT/DIVISION/OFFICE</b> 11/Construction	
<b>WORKING TITLE</b> Transportation Engineering Technician - Tester	<b>POSITION NUMBER</b> 911-516-3175-XXX	<b>EFF DATE</b>

**As a valued member of the Caltrans team, you make it possible for the Department to improve the mobility across California by being innovative and flexible; reporting to work as scheduled; working cooperatively with team members and others; and treating others fairly, honestly and with respect. Your efforts are important to each member of the team, as well as those we serve.**

**GENERAL STATEMENT:**

Under the supervision of a Senior Construction Engineer and/or the direction of a Resident Engineer, the Transportation Engineering Technician performs various transportation construction related field and/or office tasks of average difficulty.

The incumbent performs contract item inspections for ensuring compliance with plans and specifications on all phases of highway or bridge construction projects including, but not limited to; earthwork operations, placing of base and roadbed materials, materials control of asphalt and batch plants; culvert construction, pile driving, placing structural steel, erecting false work, forms and structural steel.

Duties for this position include, but are not limited to:

**TYPICAL DUTIES:**

Percentage	Job Description
Essential (E)/Marginal (M) <sup>1</sup>	

70% E	Coordinates material testing with Resident Engineer and Field Inspectors. Uses precision instruments to collect engineering data, samples construction materials and performs materials testing in accordance with Caltrans Construction Manual, as described in the Caltrans Testing Methods Manuals. Prepares test results and documentation.
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	Performs field inspections to ensure compliance with Project Plans, Special Provisions, Standard Plans and Standard Specifications. Inspects work as to the methods used by the contractor and checks quantity, quality, and vertical and/or horizontal alignments. May also coordinate with Resident Engineer's or their representative(s) the inspection and testing of
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<sup>1</sup> ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned  
MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others

materials including, asphalt concrete and Portland Cement Concrete plant inspection.

Reviews construction safety for compliance with Departmental Construction Safety Orders and Work Zone Traffic Control Specialties and reports any deficiencies to the Resident Engineer.

- 20% E Performs general construction office duties relating to the administration of construction contracts such as quantity calculations, processes contract change orders, prepares monthly progress payment estimates. Prepares documentation of the contractor's work performed and analyzes general engineering data.
- 10% M Assists the Resident Engineer in drafting change orders, contract estimates and other documents and/or reports involved in the construction projects.

### ***SUPERVISION EXERCISED OVER OTHERS***

This position does not supervise others.

### ***KNOWLEDGE, ABILITIES AND ANALYTICAL REQUIREMENTS***

Knowledge of: Contract documents to include but not limited to the Contract Special Provisions and Plans, Standard Plans and Specifications, varying types and methods of industry construction practices, State safety orders, traffic control, field office engineering techniques, effective communication, both written and verbal and negotiation skills with respect to internal and external customers.

Knowledge of Standard Specifications and Plans, the Construction Manual; methods, materials, tools and equipment used in highway and bridge construction and maintenance work; methods of proportioning and handling Portland Cement Concrete; proportioning and handling bituminous surfacing materials and the handling of asphaltic oils and emulsions; highway grading, construction and maintenance; conventional state-of-the-art computer applications related to transportation engineering work. Working knowledge of Caltrans Standard Testing Methods Manual.

Ability to: Comprehend and interpret Standard Plans and Specifications, Special Provisions, and Change Orders; assess contractor's field operations for safety purposes; determine if Contractor has adequate and competent staff performing required work in compliance with the contract; communicate effectively with Contractor's and State's personnel regarding performance and safety issues, performs simple fields surveys and other engineering tasks as required. Ability to make accurate mathematical and simple engineering calculations; make sound decisions in the interpretation of contract plans, specifications and various engineering activities; and analyze situations regarding highway safety and operational features and design concepts; prepare reports. This position requires the ability to communicate, both in writing and verbally.

**ADA Notice:** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

Analytical Requirements: Assess conflicts in the contract documents and determine a best course of action; assess and respond appropriately to internal and external personality conflicts that may interfere with progress of the work. Assess circumstances that may require elevation of issues to appropriate level for resolution.

When the duties of the TET/Tester require certifications for tests taken in performance of their work or equipment used for taking said tests it will be the responsibility of the employee to maintain any and all certifications. Additionally, it will be the responsibility of the employee to notify the lab at least one month prior to expiration of certifications. This position may require driving for State business. If the incumbent operates a state vehicle, proof of a valid California Drivers License will be required.

### ***CONSEQUENCE OF ERROR/RESPONSIBILITY FOR DECISIONS***

The incumbent is responsible for sound engineering and contract administrative decisions, with the review of a Resident Engineer and/or Senior Engineer. Poor decisions could lead to significant fiscal impact to the department and ultimately the taxpayers.

### ***PUBLIC AND INTERNAL CONTACTS***

This position requires continuous contact with contractors, Resident Engineers, Construction Engineers, Field Inspectors and other Departmental staff. May also have contact with technical and /or professional staff member from outside agencies.

### ***PHYSICAL, MENTAL AND EMOTIONAL REQUIREMENTS***

The incumbent may be required to work for long periods of time at a keyboard and video display terminal. Must be able to traverse uneven terrain, including slopes in all types of weather. Must be able to lift and carry equipment, instruments and tools. He/she will be required to drive and operate a vehicle in a safe manner for State business.

The incumbent should be able to concentrate, analyze the situation at hand, and respond appropriately in difficult, emotionally charged and/or sensitive situations. He/she may be required to handle several issues at a time and should be able identify problems and prioritize tasks.

The incumbent should be able to develop and maintain cooperative work relationships and should have the ability to handle all work-related relationship with internal and/or external contacts in professional manner.

### ***WORK ENVIRONMENT***

The base of operation will be a Construction Field Office and/or Materials Lab trailer. While in the office setting he/she will be working in a climate controlled environment with artificial lighting. While at the project site the incumbent may be exposed to the elements, dirt, noise, uneven surfaces, heavy equipment and traffic. On occasion, the incumbent may be required to travel for State

business. The incumbent may be exposed to local weather and traffic conditions. Incumbent may be required to work staggered shift working during night and/or day. In addition, the incumbent may be assigned to a Long Term Assignment within the District 11 in either imperial or San Diego County for an extended period of time.

I have read and understand the duties listed above and can perform them with/without reasonable accommodation. (If you believe you may require reasonable accommodation, please discuss this with the hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)

\_\_\_\_\_  
Employee's Name

\_\_\_\_\_  
Signature Date

I have discussed the duties with and provided a copy of this duty statement to the employee named above.

\_\_\_\_\_  
Supervisor's Name

\_\_\_\_\_  
Signature Date